

1. An image processing apparatus comprising:
input means for inputting image data showing an original image;

embedding means for embedding compression data
obtained by said compressing means into said image data
so that it is difficult to be identified by the human
10 eyes by converting a part of said image data.

3. An apparatus according to claim 1, further comprising second embedding means for converting a part different from said part of said image data in accordance with predetermined information, thereby embedding said predetermined information into said image data.

4. An apparatus according to claim 3, wherein said
25 image data is constructed by a plurality of bit planes
and said second embedding means exchanges said
predetermined information to an upper bit plane,

5. An apparatus according to claim 1, wherein the
5 image data which is converted by said embedding means
is included in at least said part of the image data
which is compressed by said compressing means.

7. An apparatus according to claim 1, wherein said
15 image data comprises color components of RGB.

9. A storage medium which stores an image

an input step of inputting image data showing an original image;

5 a compressing step of compressing at least a part of said image data; and

10. An image processing apparatus comprising:
compressing means for compressing image data;
first embedding means for embedding data, as an
invisible watermark, showing a result of the
compression in said compressing means to a first
predetermined bit position of said image data; and
second embedding means for embedding a visible
watermark to a second predetermined bit position of
said image data.

11. An apparatus according to claim 10, wherein
information showing said first predetermined bit
position of said image data in which the data is
25 embedded by said first embedding means is key
information.

5 13. An image processing apparatus comprising:
compressing means for compressing image data;
encrypting means for encrypting data showing a
result of the compression in said compressing means;
first embedding means for embedding the data, as
0 an invisible watermark, encrypted by said encrypting
means to a first predetermined bit position of said
image data; and
second embedding means for embedding a visible
watermark to a second predetermined bit position of
5 said image data.

14. An apparatus according to claim 13, wherein
information showing said first predetermined bit
position of said image data in which the data is
20 embedded by said first embedding means is key
information.

15. An apparatus according to claim 13, wherein the
compression by said compressing means is a reversible
25 compression.

16. An image processing method comprising:

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a second embedding step of embedding a visible watermark to a second predetermined bit position of said image data.

10 a compressing step of compressing image data;
 an encrypting step of encrypting data showing a
result of the compression in said compressing step;
 a first embedding step of embedding the data, as
an invisible watermark, encrypted in said encrypting
15 step to a first predetermined bit position of said
image data; and
 a second embedding step of embedding a visible
watermark to a second predetermined bit position of
said image data.